

## ABSTRACT

### INTERNAL FLAME GAS BURNER WITH HIGH COMPACTNESS

The invention relates to an internal flame gas burner comprising a gas injector (1), a vacuum tube (2), and an annular chamber (5) formed by a pot (3) covered by a cap (4), the chamber having an internal edge (51) 5 perforated with flame exit ports (510), and the tube (2) having a convergent section open to the ambient air at an inlet end, and a divergent section succeeding the convergent section, ending at the outlet of the tube and opening out into the chamber, the injector being 10 relatively closer to the inlet of the tube than to the outlet.

According to the invention, the tube extends longitudinally along an axis (X) contained in a mid-plane (P) of the annular chamber, this tube having a 15 length (L2) at most equal to twice the greatest distance (R) separating the internal edge (51) of the chamber from the center (50) of this chamber.

Figure 1.